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CIA IMAGERY ANALYSIS DIVISION

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CHAN-CHIANG (FT. BAYARD) PHOSPHATE FERTILIZER PLANT CHINA

The phosphate fertilizer plant is located approximately 1.5 nautical miles south-southeast of the center of Chan-chiang complex at 21 10N -110 22E (Figures 1 and 2).

The plant is both rail and road served and appears to be a component of an expanding chemical complex which presently contains a water purification facility and at least one other chemical plant under construction (Figure 6).

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This study was made from both overflight and satellite photography covering the period The following is a brief description of the process used at this plant in the production of fertilizer.

Phosphate ore is brought into the plant by rail and then processed, crushed and stored. The crushed ore is treated with sulfuric acid from the adjacent acid plant in the mixing section to form an acid-rock slurry. The slurry is then placed in large concrete vats or dens for several hours in order to allow completion of the acid reaction. The raw superphosphate from the den section is then placed in the curing section where it is thoroughly dried and cured for several weeks. From the curing section, the superphosphate is conveyed to the final processing building where it is crushed, bagged and stored for shipment.

At this particular plant, it appears possible that part of the phosphate ore could be treated with concentrated sulfuric acid to produce phosphoric acid by the wet process. If this is the case, triple superphosphate could also be made at this plant by treating the crushed ore with phosphoric acid rather than sulfuric acid in a process which closely parallels that for the production of superphosphate.

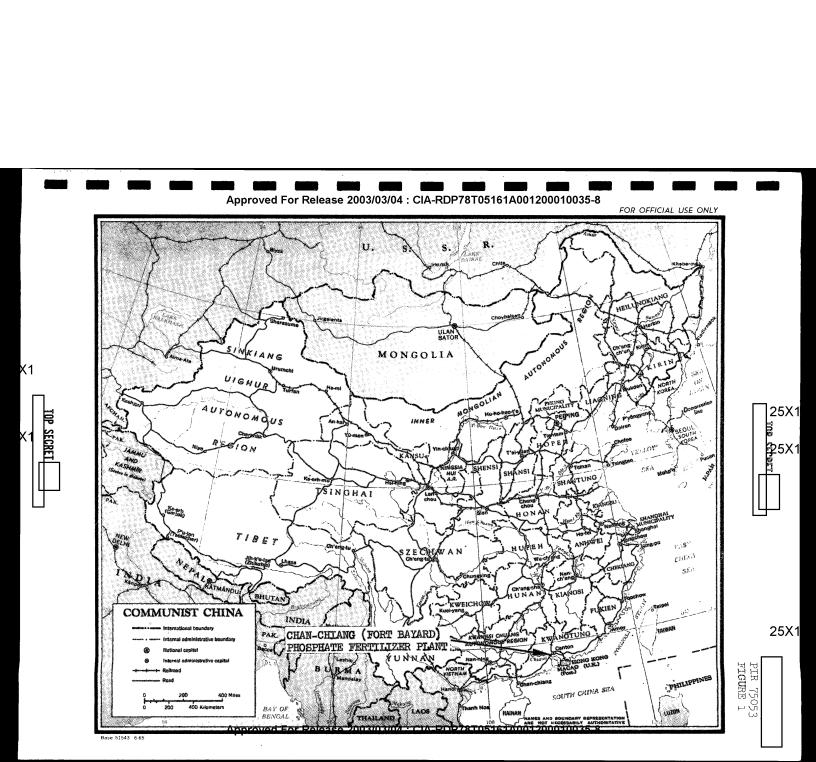
The following list of areas and plant facilities are keyed to the annotated photo enlargement, Figure 6:

AREA 1 Fertilizer Production

- a. Ore receiving point
- b. Ore processing and storage
- bl. Probable fertilizer storage
 - c. Crushing building
- d. Mixing section and possible phosphoric acid production section
- e. Den and curing building
- Probable by-products processing and possible phosphoric acid processing building
- g. Final processing and fertilizer warehouse

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	AREA 2 Contact Sulfuric Acid Production
	h. Waste disposal i. Ore processing and storage (pyrite) j. Roaster section k. Tower and converter section l. Cooling coils m. Acid storage n. Air intake
	AREA 3 - Unidentified Chemical Plant Under Construction
	AREA 4 - Water Purification Facility
	AREA 5 - Open Storage Area
25X1 25X1	Photography showed the Chan-chiang phosphate fertilizer plant to be in early to mid-stage of construction. The only buildings completed at that time were the ore storage/fertilizer warehouse and several of the support buildings. By Figure 3, construction on the den and curing building, the final processing and fertilizer warehouse, and additional support buildings had been completed. Also, construction on the sulfuric acid plant was estimated to be in mid-stage. Photo coverage indicated that all of the major components of the plant were completed and operational. Only minor construction activity on support type buildings was
25X1	being carried on, Figure 4 all construction appeared complete, and a shed-type building at the phosphate ore receiving point had been removed, Figures 5 and 7. Small scale and obliquity precluded determination of the production activity at this time. Coverage clearly shows the plant to be complete and operating at a high level of production, Figure 6.
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	REFERENCES		
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